1416

CLINTON LABORATORIES

CENTRAL FILES NUMBER

~~47-1-14~~

47-1-13

B-137

Date January 24, 1947

File

Subject Product 25 Inventory of Special Materials

Those Eligible To Read The Attached

By J. H. Lum

Copy # 3A

To Lt. Col. W. P. Leber

E. P. Wigner

Before reading this document, sign and date below:

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This document consists of 3 pages and 0 figures.
No. 3 of 11 copies, Series A

# PRODUCT 25

## Historical Summary As of December 31, 1946

Of the 4545.91 grams on hand as of December 31, 1946, 4161.16 grams were checked by chemical and isotopic analyses. The 4.44 grams expended in research represents experimental losses previously reported in our monthly reports. The undetermined losses are made up almost entirely (2.53 out of 2.54 grams) of the loss shown by the analysis on the material being used in the criticality experiments. It is believed however that the value obtained is only accurate to within ± .25% or approximately ± 10 grams.

## Summary of Receipts of Enriched Materials Now on Hand

| % Enrichment | Date Received | SM | Amount on Hand | Use |
|---|---|---|---|---|
| 75 | 12-7-45 | 250 | .99 g | Photoneutron studies |
| 79 | 10-6-44 | 14 | .09 g | Used in connection with crystal spectrometer measurements |
| 82.9 | 3-28-45 | 87 | 3.55 g | Samples were combined and are being used in studies of gas formation in irradiated solutions |
| 87.2 | 7-21-45 | 137 | | |
| 94.2 | 11-12-46 | 446 | 344.96 g | Used as source of neutron in thermal column. Approximately 11 grams transferred to 95.0% material |
| 94.8 | 3-7-46 | 264 | 19.60 g | Used as a "bank" for supplying small project needs |
| 96.0 | | | 24.11 g | This sample has been prepared from 96.7% and 94.2% materials listed elsewhere for preparation of a slug to be irradiated at H.E.W. in the preparation of 26 needed in determination of nuclear properties of this isotope. (Re letter from Operations Officer - October 4, 1945) |

[redacted] is document contains information affecting the national [redacted] se of the United States within the meaning of the [redacted] ionage Act, U. S. C. [redacted] 31 and [redacted]. Its transmission [redacted] the revelation of its contents in any [redacted] ner to an [redacted] ized person is prohibited by law.

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## Summary of Receipts of Enriched Materials Now on Hand

(Continued)

| % Enrichment | Date Received | SM | Amount on Hand | Use |
|---|---|---|---|---|
| 96.35 | 2-12-46 | 265 | | |
| | 5-27-46 | 318 | 4141.55 g | Criticality experiment |
| 96.7 | 3-8-46 | 265 | 10.47 g | Used in studies of fuel assemblies for Heterogeneous Pile |
| 95.8 | 1-31-46 | 238 | .83 g | Part of this material is plated on monel plates and is used in ionization chambers. Another sample is plated in a fission chamber |
| 90 | 5-31-46 | 321 | .005 g | Studies of nuclear properties |



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## PRODUCT 25

### Summary of Transfers Between Operations Officer and Clinton Laboratories

#### 79% Material

Shipped .02 g - 8-4-45

Received .01 g - 8-11-45 SM 149

Received .01 g - 1-10-46 SM 231

#### 95.7% Material

Received 20.44 g - 4-23-46 SM 293

Shipped 20.46 g - 4-16-46

Shipped .10 g - 5-6-46

Shipped 4.49 g - 9-16-46

#### 95.41% & 95.5% Material

Shipped 6.20 g - 12-10-46

#### 94.8% Material

Shipped .48 g - 5-10-46

Shipped 15.00 g - 6-21-46

Shipped 15.00 g - 7-16-46

#### 94.2% Material

Received 347.22 g - 11-25-46 SM 455

Shipped 347.22 g - 11-20-46

•Not listed under Summary of Receipts.